

GenCore version 4.5  
copyright (c) 1993 - 2000 Compugen Ltd.

## OM nucleic - nucleic search, using sw model

Run on: US-09-540-235-1  
March 2, 2002, 20:28:56 ; Search time 2699.18 Seconds  
(without alignments)  
2649.239 Million cell updates/sec

Title: Perfect score: 408  
Sequence: 1.acggcgtcgattgagaatta.....acatccatataatgttgtta 408

Scoring table: IDENTITY\_NUC  
gapext 10.0 , Gapext 1.0

Searched: 17159718 seqs, 8763200856 residues

Total number of hits satisfying chosen parameters: 34319436

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Pending\_Patents\_NA\_Main:\*

1: /cgn2\_6/ptodata/1/pna/PCUTS\_COMB.seq:\*

2: /cgn2\_6/ptodata/1/pna/US06..COMB.seq:\*

3: /cgn2\_6/ptodata/1/pna/US07..COMB.seq:\*

4: /cgn2\_6/ptodata/1/pna/US08..COMB.seq:\*

5: /cgn2\_6/ptodata/1/pna/US081..COMB.seq:\*

6: /cgn2\_6/ptodata/1/pna/US082..COMB.seq:\*

7: /cgn2\_6/ptodata/1/pna/US083..COMB.seq:\*

8: /cgn2\_6/ptodata/1/pna/US084..COMB.seq:\*

9: /cgn2\_6/ptodata/1/pna/US085..COMB.seq:\*

10: /cgn2\_6/ptodata/1/pna/US086..COMB.seq:\*

11: /cgn2\_6/ptodata/1/pna/US087..COMB.seq:\*

12: /cgn2\_6/ptodata/1/pna/US088..COMB.seq:\*

13: /cgn2\_6/ptodata/1/pna/US089..COMB.seq:\*

14: /cgn2\_6/ptodata/1/pna/US090..COMB.seq:\*

15: /cgn2\_6/ptodata/1/pna/US091..COMB.seq:\*

16: /cgn2\_6/ptodata/1/pna/US092..COMB.seq:\*

17: /cgn2\_6/ptodata/1/pna/US093..COMB.seq:\*

18: /cgn2\_6/ptodata/1/pna/US094..COMB.seq:\*

19: /cgn2\_6/ptodata/1/pna/US095..COMB.seq:\*

20: /cgn2\_6/ptodata/1/pna/US095B..COMB.seq:\*

21: /cgn2\_6/ptodata/1/pna/US095C..COMB.seq:\*

22: /cgn2\_6/ptodata/1/pna/US095D..COMB.seq:\*

23: /cgn2\_6/ptodata/1/pna/US096..COMB.seq:\*

24: /cgn2\_6/ptodata/1/pna/US096B..COMB.seq:\*

25: /cgn2\_6/ptodata/1/pna/US096C..COMB.seq:\*

26: /cgn2\_6/ptodata/1/pna/US096D..COMB.seq:\*

27: /cgn2\_6/ptodata/1/pna/US096E..COMB.seq:\*

28: /cgn2\_6/ptodata/1/pna/US097A..COMB.seq:\*

29: /cgn2\_6/ptodata/1/pna/US097B..COMB.seq:\*

30: /cgn2\_6/ptodata/1/pna/US097C..COMB.seq:\*

31: /cgn2\_6/ptodata/1/pna/US098..COMB.seq:\*

32: /cgn2\_6/ptodata/1/pna/US099..COMB.seq:\*

33: /cgn2\_6/ptodata/1/pna/US600..COMB.seq:\*

34: /cgn2\_6/ptodata/1/pna/US601..COMB.seq:\*

35: /cgn2\_6/ptodata/1/pna/US602..COMB.seq:\*

36: /cgn2\_6/ptodata/1/pna/US603..COMB.seq:\*

37: /cgn2\_6/ptodata/1/pna/US604..COMB.seq:\*

38: /cgn2\_6/ptodata/1/pna/US605..COMB.seq:\*

39: /cgn2\_6/ptodata/1/pna/US606..COMB.seq:\*

40: /cgn2\_6/ptodata/1/pna/US607..COMB.seq:\*

41: /cgn2\_6/ptodata/1/pna/US608..COMB.seq:\*

42: /cgn2\_6/ptodata/1/pna/US609..COMB.seq:\*

43: /cgn2\_6/ptodata/1/pna/US610..COMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	408	100.0	408	21	US-09-540-235-1
2	408	100.0	408	45	US-60-128-339-2
3	302.4	74.1	384	45	US-60-128-439-488
4	302.4	74.1	371	21	US-09-540-254-542
5	235.2	57.6	298	45	US-60-128-439-489
6	235.2	57.6	327	21	US-09-540-235-543
7	6	57.6	562	30	US-09-607-152-388
8	132.8	32.5	371	23	US-09-605-701-18273
9	132.8	32.5	18	US-09-411-999-3936	Sequence 36936, A
10	132.8	32.5	394	23	US-09-411-999-3936
11	132.8	32.5	429	23	US-09-605-699-11618
12	132.8	32.5	471	23	US-09-605-701-1652
13	132.8	32.5	479	23	US-09-606-755-5558
14	132.8	32.5	543	18	US-09-411-999-32416
15	132.8	32.5	555	23	US-09-605-701-13385
16	132.8	32.5	58	16	US-60-253-724-4434
17	132.8	32.5	946	31	US-09-867-716-19329
18	130	31.9	417	25	US-09-654-617-150388
19	130	31.9	417	27	US-09-684-016-150388
20	130	31.9	449	23	US-09-605-701-17346
21	130	31.9	639	22	US-09-565-309A-56964
22	130	31.9	666	22	US-09-565-378-29237
23	130	31.9	724	25	US-09-654-617-127760
24	130	31.9	724	27	US-09-684-016-127760
C	130	31.9	51860	20	US-09-684-016-127760
C	130	31.9	51860	31	US-09-803-736-980
C	130	31.9	51860	31	US-09-411-999-3113
C	129	31.8	423	18	US-09-724-725-23275
C	129	31.8	370	27	US-09-684-016-165153
C	129	31.7	385	50	US-60-171-431-23275
C	129	31.6	381	23	US-09-605-701-2416
C	129	31.6	639	23	US-09-565-309A-49589
C	126	30.9	668	28	US-09-705-926-2386
C	126	30.9	370	25	US-09-654-617-165153
C	124.2	30.4	370	27	US-09-684-016-165153
C	124.2	30.4	432	25	US-09-654-617-165221
C	124.2	30.4	432	37	US-09-684-016-165221
C	124.2	30.4	469	25	US-09-654-617-153103
C	124.2	30.4	473	25	US-09-684-016-153505
C	124.2	30.4	473	27	US-09-684-016-153505
C	124.2	30.4	475	41	US-09-654-617-161426



```

; RESULT 5
; US-09-540-235-5043
; Sequence 5043, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)A
; CURRENT APPLICATION NUMBER: US/601128,439
; CURRENT FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5661
; SEQ ID NO: 4189
; LENGTH: 298
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE: 
; OTHER INFORMATION: Clone ID: LIB190-054-Q1-E1-D12
; US-60-128-439-4189

Query Match      57.6%; Score 235.2; DB 45; Length 298;
Best Local Similarity 87.2%; Prid. No. 7.7e-61;
Matches 258; conservative 0; Mismatches 38; Indels 0; Gaps 0;
; Sequence 5043, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIORITY FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO: 5042
; LENGTH: 417
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; OTHER INFORMATION: Clone ID: LIB190-054-Q1-E1-D11
; US-09-540-235-5042

Query Match      74.1%; Score 302.4; DB 21; Length 417;
Best Local Similarity 91.2%; Pred. No. 3e-81;
Matches 321; Conservative 0; Mismatches 31; Indels 0; Gaps 0;
; Sequence 5042, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIORITY FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO: 5042
; LENGTH: 417
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; OTHER INFORMATION: Clone ID: LIB190-054-Q1-E1-D11
; US-09-540-235-5042

Query Match      57.6%; Score 235.2; DB 45; Length 298;
Best Local Similarity 87.2%; Prid. No. 7.7e-61;
Matches 258; conservative 0; Mismatches 38; Indels 0; Gaps 0;
; Sequence 5043, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIORITY FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO: 5043
; LENGTH: 327
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; OTHER INFORMATION: Clone ID: LIB190-054-Q1-E1-D12
; US-09-540-235-5043

```







TITLE OF INVENTION: Them, and Methods for Using Them  
FILE REFERENCE: 11000-1041U3  
CURRENT APPLICATION NUMBER: US/09/605,701  
CURRENT FILING DATE: 2000-05-21  
NUMBER OF SEQ ID NOS: 25120  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 17385  
LENGTH: 555  
TYPE: DNA  
ORGANISM: *Pinus radiata*  
-09-605-101-17385

Query Match	Best Local Similarity	Score	DB	Length
Matches 203;	Conservative	0;	Mismatches 117;	Indels 0;
88 cagtccgcatgaatgtattccaagaqtqtatctcgcttagagaaacgcaggaaact	32.5%	132.8;	DB 23;	Length 555;
69 cattcaggatgaaatccaaaggatcaggttcaggaaadagcccaaggcac	63.4%	15e-29;	Pred 0;	gaps 0;
148 actttcaaggaccatctctgtacgcgaataactcatgtacgttgcacccgttgcataa	32.5%	132.8;	DB 23;	Length 555;
129 atttcactggccatctatgttgccgggtatgttgcataa	32.5%	132.8;	DB 23;	Length 555;
208 taatgtacgaaatcacgctgttgttttacatcatttgcggaaatcgaaatcgat	32.5%	132.8;	DB 23;	Length 555;
189 tggaaaacaatgttacatgttgtgttcattccggatggaaatgtatgttgcagg	32.5%	132.8;	DB 23;	Length 555;
267 249 ttccggggatcttcaggatggtagagaaaaatcacacgttacatgttgcagg	32.5%	132.8;	DB 23;	Length 555;
248 309 tcggaggaaattttgcggatggatggaaatgttgcaggaaatgttgcagg	32.5%	132.8;	DB 23;	Length 555;
328 388 gggatataatcgaggatgttacccaggagaaaaatcgatgttgcaggaaatgttgcagg	32.5%	132.8;	DB 23;	Length 555;
308 369 tcatccatgttggggcattractctgttgcaggaaatgttgcaggaaatgttgcagg	32.5%	132.8;	DB 23;	Length 555;
387 368 tcacccatccaaatgttgcaggaaatgttgcaggaaatgttgcaggaaatgttgcagg	32.5%	132.8;	DB 23;	Length 555;

Search completed: March 2, 2002, 23:02:24  
Job time: 9208 sec

